```
   1  CACAGACAGGCTCTTAACTGTTTATATCACTCACTTGGGAAAGTGTCTCAAGCTGTTCTA
  61  CAAATCCATGCAAAGGCCGTTTAAAAATAGCAGCGAAGGTCCTGGACTCGGTCTCGTCCA
 121  GCACAGCCCCTTGGCTCTCTCTCTGGGCTCTGGCCGCCTGGCCCCCGGGGACCCACACGA
 181  GGTCATGGCGTGCTTCGGGCAGGGGGGCGGGGATCCCATAGACACCTCAGCTCCTTAAGA
 241  GTTCTCCGCCTGGGCCAGGACGAGCATGGGGGTCCCCACTGATGCCCGAGACAGTGCCCC
 301  TGTGTGTGTGAGCCCTCGACCCACATAACAGAGAGGTGTCCTGATGCCCTCTGTCCTCTC
 361  CAGGTGGATCTAGGATCCGGCTTCCAACATGTGGCAGCTCTGGGCCTCCCTCTGCTGCCT
 421  GCTGGTGTTGGCCAATGCCCGGAGCAGGCCCTCTTTCCATCCCGTGTCGGATGAGCTGGT
 481  CAACTATGTCAACAAACGGAATACCACGTGGCAGGCCGGGCACAACTTCTACAACGTGGA
 541  CATGAGCTACTTGAAGAGGCTATGTGGTACCTTCCTGGGTGGGCCCAAGCCACCCCAGAG
 601  AGTTATGTTTACCGAGGACCTGAAGCTGCCTGCAAGCTTCGATGCACGGGAACAATGGCC
 661  ACAGTGTCCCACCATCAAAGAGATCAGAGACCAGGGCTCCTGTGGCTCCTGCTGGGTAAG
 721  GCCCTGCTGGCTGGTGGGGAAGCGCTGGAGAGAAAGTGGGAGCAACACTGGAGAGTCTTG
 781  GGGGATTCGGGGTGGGGACAACTCTGACAAGGCAAGTTATAGAAACTTTCTGAGTCCCAG
 781  TTTCCATCAGTACAAAAATCACAATCCCTCTGGCCATGAATGAATGGCGAGGATTAGGTGG
 841  AGTGGCGGGCAGAGCATCCAGCAGATTGCAAGTCCACGTGTACAGGTGGCGAAGCAGCTC
 901  CCTTTCCCTGACATGCTGGCCCGTCCGCAAATACCAGGAGCTCTCACTGCTACTCTGCTT
 961  CAAGAAAGCATCCCTTTAGTGTCAGTGAGCTGTCTTAATTTTGTCATTTAATTGTGGTAA
1021  AATACACGTAACAGAAATGTAATAATCTTAGCAATCTTCTTTTGTTTTCTTTTTCTTTTT
1081  TTTTTTTTTTTTTTT
```

FIGURE 1

```
  1 MWQLWASLCCLLVLANARSRPSFHPVSDELVNYVNKRNTTWQAGHNFYNVDMSYLKRLCG
 61 TFLGGPKPPQRVMFTEDLKLPASFDAREQWPQCPTIKEIRDQGSCGSCWVRPCWLVGKRW
121 RESGSNTGESWGIRGGDNSDKASYRNFLSPSFHQYKNHNPSGHE
```

FIGURE 2

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```
   1 TCCAAGTCCTGGATGAGCTCGGAAGACACGTGCTGCTGCGGAAGGACTGTGGCCCAGTGG
  61 ACACCAAGGTTCCAGGTGCTGGGGAGCCCAAGTCAGCCTTCACTCAGGGCTCAGCCATGA
 121 TTTCTTCTCTGTCCCAAAACCATCCAGACAACAGAAACGAGACTTTCAGCTCAGTCATTT
 181 CCCTGTTGAATGAGGATCCCCTGTCCCAGGACTTGCCTGTGAAGATGGCTTCAATCTTCA
 241 AGAACTTTGTCATTACCTATAACCGGACATATGAGTCAAAGGAAGAAGCCCGGTGGCGCC
 301 TGTCCGTCTTTGTCAATAACATGGTGCGAGCACAGAAGATCCAGGCCCTGGACCGTGGCA
 361 CAGCTCAGTATGGAGTCACCAAGTTCAGTGATCTCACAGAGGAGGAGTTCCGCACTATCT
 421 ACCTGAATACTCTCCTGAGGAAAGAGCCTGGCAACAAGATGAAGCAAGCCAAGTCTGTGG
 481 GTGACCTCGCCCCACCTGAATGGGACTGGAGGAGTAAGGGGGCTGTCACAAAAGTCAAAG
 541 ACCAGGGCATGTGTGGCTCCTGCTGGGCCTTCTCAGTCACAGGCAATGTGGAGGGCCAGT
 601 GGTTTCTCAACCAGGGGACCCTGCTCTCCCTCTCTGAACAGGAGCTCTTGGACTGTGACA
 661 AGATGGACAAGGCCTGCATGGGCGGCTTGCCCTCCAATGCCTACTCGGCCATAAAGAATT
 721 TGGGAGGGCTGGAGACAGAGGATGACTACAGCTACCAGGGTCACATGCAGTCCTGCAACT
 781 TCTCAGCAGAGAAGGCCAAGGTCTACATCAATGACTCCGTGGAGCTGAGCCAGAACGAGC
 841 AGAAGCTGGCAGCCTGGCTGGCCAAGAGAGGCCCAATCTCCGTGGCCATCAATGCCTTTG
 901 GCATGCAGTTTTACCGCCACGGGATCTCCCGCCCTCTCCGGCCCCTCTGCAGCCCTTGGC
 961 TCATTGACCATGCGGTGTTGCTTGTGGGCTACGGCAACCGCTCTGACGTTCCCTTTTGGG
1021 CCATCAAGAACAGCTGGGGCACTGACTGGGGTGAGAAGGGTTACTACTACTTGCATCGCG
1081 GGTCCGGGGCCTGTGGCGTGAACACCATGGCCAGCTCGGCGGTGGTGGACTGAAGAGGGG
1141 CCCCCAGCTCGGGACCTGGTGCTGATCAGAGTGGCTGCTGCCCCAGCCTGACATGTGTCC
1201 AGGCCCCTCCCCGGGAGGTACAGCTGGCAGAGGGAAAGGCACTGGGTACCTCAGGGTGAG
1261 CAGAGGGCACTGGGCTGGGGCACAGCCCCTGCTT
```

FIGURE 3

```
1   MISSLSQNHPDNRNETFSSVISLLNEDPLSQDLPVKMASIFKNFVITYNRTYESKEEARW
61  RLSVFVNNMVRAQKIQALDRGTAQYGVTKFSDLTEEEFRTIYLNTLLRKEPGNKMKQAKS
121 VGDLAPPEWDWRSKGAVTKVKDQGMCGSCWAFSVTGNVEGQWFLNQGTLLSLSEQELLDC
181 DKMDKACMGGLPSNAYSAIKNLGGLETEDDYSYQGHMQSCNFSAEKAKVYINDSVELSQN
241 EQKLAAWLAKRGPISVAINAFGMQFYRHGISRPLRPLCSPWLIDHAVLLVGYGNRSDVPF
301 WAIKNSWGTDWGEKGYYYLHRGSGACGVNTMASSAVVD
```

FIGURE 4

09762491 - 050800

```
   1 atgtcgtgcg tcaagttatg gcccagcggt gcccccgccc ccttggtgtc catcgaggaa
  61 ctggagaacc aggagctcgt cggcaaagac gggttcggca cagtgttccg ggcgcaacat
 121 aggaagtggg gctacgatgt ggcggtcaag atcgtaaact cgaaggcgat atccagggag
 181 gtcaaggcca tggcaagtct ggataacgaa ttcgtgttgc gcctagaagg ggttatcgag
 241 aaggtgaact gggaccaaga tcccaagccg gctctggtga ctaaattcat ggagaacggc
 301 tccctgtcgg ggctgctgca gtcccagtgc cctcggccct ggccgctcct ttgccgcctg
 361 ctgaaagaag tggtgcttgg gatgttttac ctgcacgacc agaacccggt gctcctgcac
 421 cgggacctca agccatccaa cgtcctgccg gacccagagc tgcacgtcaa gctggcagat
 481 tttggcctgt ccacatttca gggaggctca cagtcaggga cagggtccgg ggagccaggg
 541 ggcaccctgg gctacttggc cccagaactg tttgttaacg taaaccggaa ggcctccaca
 601  gccagtgacg tctacagctt cgggatccta atgtgggcag tgcttgctgg aagagaagtt
 661 gagttgccaa ccgaaccatc actcgtgtac gaagcagtgt gcaacaggca gaaccggcct
 721 tcattggctg agctgcccca agccgggcct gagactcccg gcttagaagg actgaaggag
 781 ctaatgcagc tctgctggag cagtgagccc aaggacagac cctccttcca ggaatgccta
 841 ccaaaaactg atgaagtctt ccagatggtg gagaacaata tgaatgctgc tgtctccacg
 901 gtaaaggatt tcctgtctca gctcaagagc agcaatagga gattttctat cccagagtca
 961 ggccaaggag ggacagaaat ggatggcttt aggagaacca tagaaaacca gcactctcgt
1021 aatgatgtca tggtttctga gtggctaaac aaactgaatc tagaggagcc tcccagctct
1081 gttcctaaaa aatgcccgag ccttaccaag aggagcaggg cacaagagga gcaggttcca
1141 caagcctgga cagcaggcac atcttcagat tcgatggccc aacctcccca gactccagag
1201 acctcaactt tcagaaacca gatgcccagc cctacctcaa ctggaacacc aagtcctgga
1261 ccccgaggga atcaggggge tgagagacaa ggcatgaact ggtcctgcag gaccccggag
1321 ccaaatccag taacagggcg accgctcgtt aacatataca actgctctgg ggtgcaagtt
1381 ggagacaaca actacttgac tatgcaacag acaactgcct tgcccacatg gggcttggca
1441 ccttcgggca aggggagggg cttgcagcac cccccaccag taggttcgca agaaggccct
1501 aaagatcctg aagcctggag caggccacag ggttggtata atcatagcgg gaaataa
```

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FIGURE 5

```
  1 MSCVKLWPSGAPAPLVSIEELENQELVGKDGFGTVFRAQHRKWGYDVAVKIVNSKAISRE
 61 VKAMASLDNEFVLRLEGVIEKVNWDQDPKPALVTKFMENGSLSGLLQSQCPRPWPLLCRL
121 LKEVVLGMFYLHDQNPVLLHRDLKPSNVLPDPELHVKLADFGLSTFQGGSQSGTGSGEPG
181 GTLGYLAPELFVNVNRKASTASDVYSFGILMWAVLAGREVELPTEPSLVYEAVCNRQNRP
241 SLAELPQAGPETPGLEGLKELMQLCWSSEPKDRPSFQECLPKTDEVFQMVENNMNAAVST
301 VKDFLSQLKSSNRRFSIPESGQGGTEMDGFRRTIENQHSRNDVMVSEWLNKLNLEEPPSS
361 VPKKCPSLTKRSRAQEEQVPQAWTAGTSSDSMAQPPQTPETSTFRNQMPSPTSTGTPSPG
421 PRGNQGAERQGMNWSCRTPEPNPVTGRPLVNIYNCSGVQVGDNNYLTMQQTTALPTWGLA
481 PSGKGRGLQHPPPVGSQEGPKDPEAWSRPQGWYNHSGKZ
```

FIGURE 6

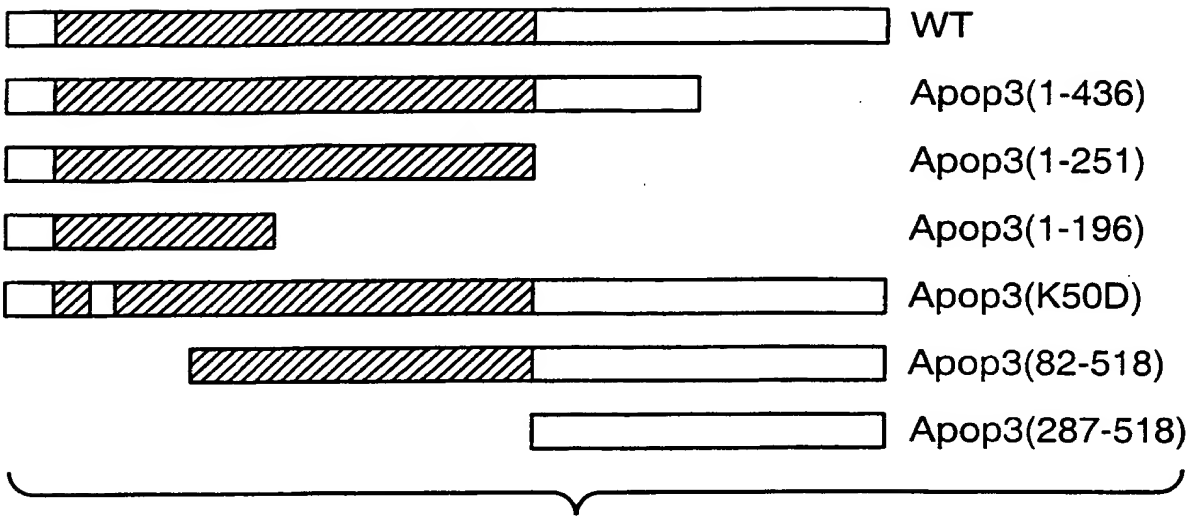

FIG._7

FIG._8

	Binding To RIP
Apop3	++++
Apop3(1-436)	+
Apop3(1-251)	–
Apop3(1-196)	–
Apop3(K50D)	++++
Apop3(82-518)	+++
Apop3(287-518)	–

09762491.050901

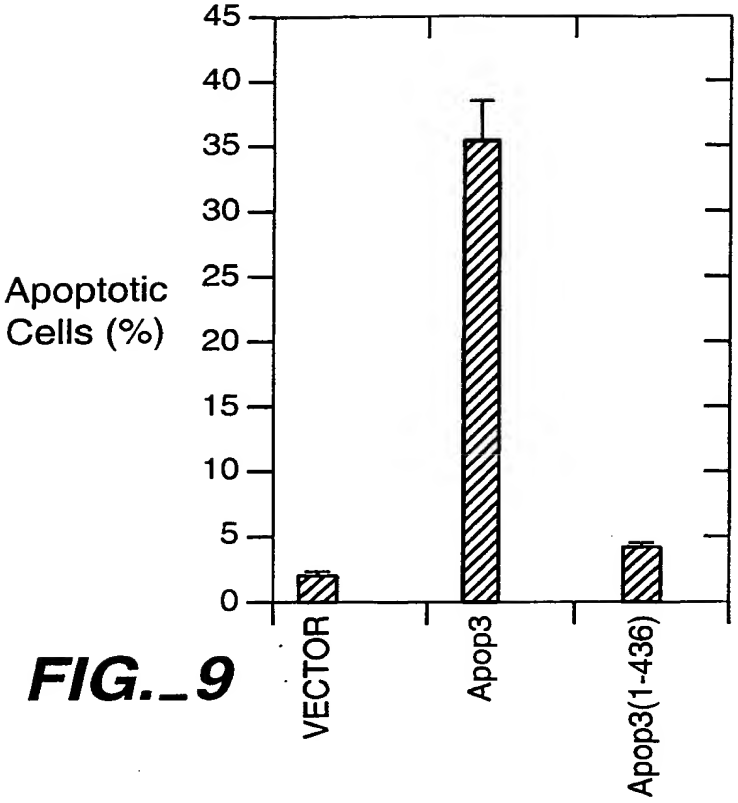
Apoptotic Cells (%)
45
40
35
30
25
20
15
10
5
0
VECTOR
Apop3
Apop3(1-436)

FIG._9

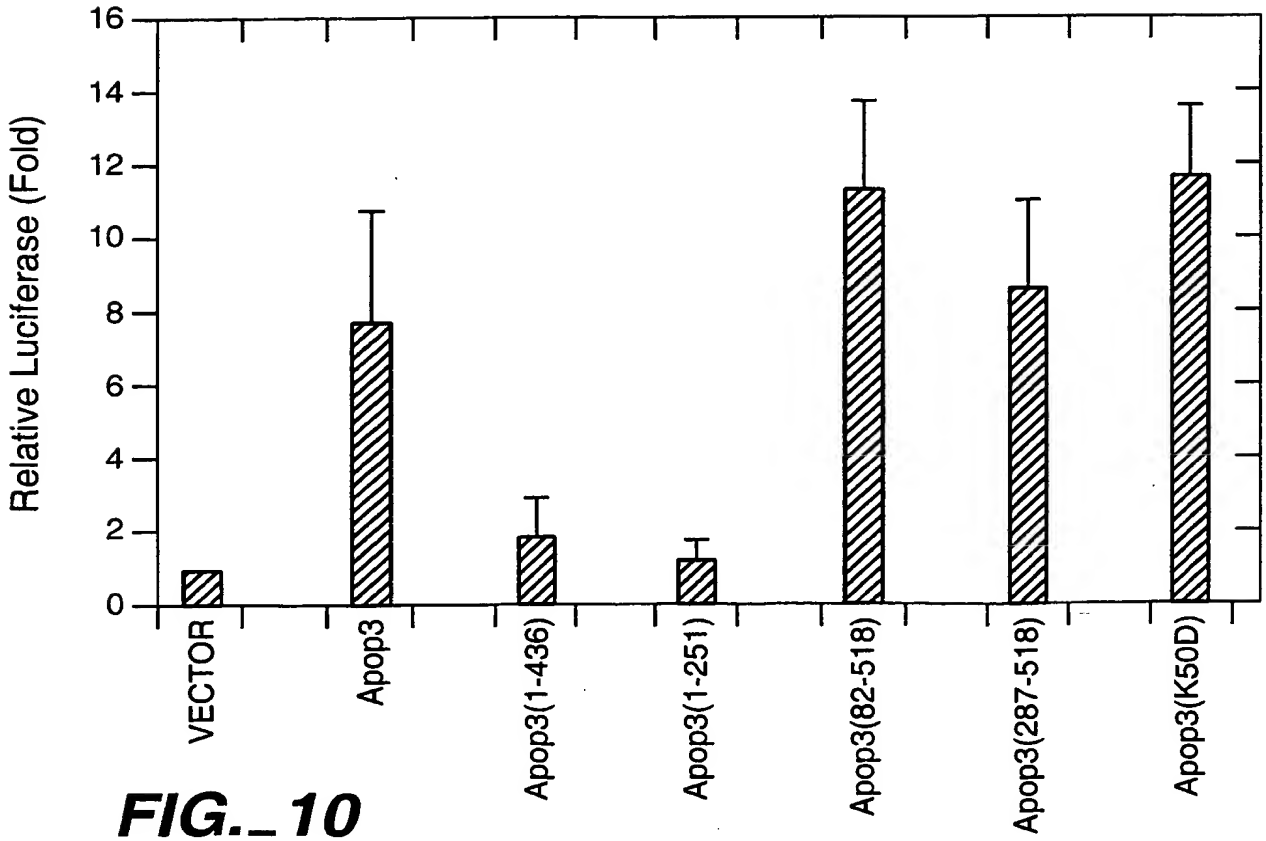
Relative Luciferase (Fold)
16
14
12
10
8
6
4
2
0
VECTOR
Apop3
Apop3(1-436)
Apop3(1-251)
Apop3(82-518)
Apop3(287-518)
Apop3(K50D)

FIG._10